

# AVIATION

*The Oldest American Aeronautical Magazine*

JUNE 14, 1926

Issued Weekly

PRICE 15 CENTS



A DeHavilland 50 Cabin Plane on Pontoons.

VOLUME  
XX

## SPECIAL FEATURES

NUMBER  
24

THE AIR COMMERCE ACT OF 1926

MORE ARCTIC FLIGHT PHOTOGRAPHS

CORRUGATED METAL SHEET IN AIRCRAFT CONSTRUCTION

GARDNER PUBLISHING CO., INC.  
HIGHLAND, N. Y.

225 FOURTH AVENUE, NEW YORK

Entered as Second-Class Matter, Nov. 22, 1926, at the Post Office, at Highland, N. Y.  
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1915-1926*

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Diameter of Propeller now used: \_\_\_\_\_ Pitch: \_\_\_\_\_ If geared, state gear ratio: \_\_\_\_\_

Actual high speed with present propeller: \_\_\_\_\_ NOTE: We find that many pilots over-estimate their high speed. Accurate information on this point is necessary in designing an efficient propeller.

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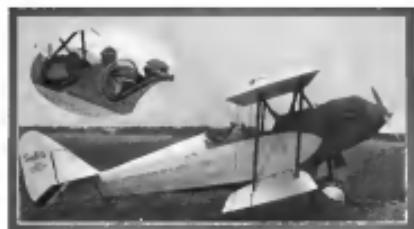
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JUNE 14, 1926

# AVIATION

Published every Monday

## CONTENTS

Editorials	1003	Corrugated Sheet Metal in Aircraft Structures	980
The "Air Commerce Act of 1926" .....	981	The Vultee-Wiklund Fighter .....	981

GARDNER PUBLISHING COMPANY, Inc., Publishers

BUSINESS AND EDITORIAL OFFICES: 225 FOURTH AVENUE, NEW YORK

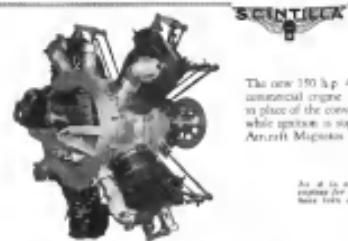
CABLE ADDRESS: ALBACON

Telephone Office

HIGHLAND, N. Y.

Subscription price: Four dollars per year. Canada, five dollars. Foreign, six dollars. Single copies, fifteen cents. Back numbers 25 cents. Copyright 1926, by the Gardner Publishing Company.

Entered every Monday. Forms close ten days previously. Postage paid at second-class matter No. 12, 1926, at the Post Office at Highland, N. Y., under act of March 3, 1879.



The new 170 h.p. 4 cyl. Fanchini-Garrick radial air cooled commercial engine. A carb and wider arrangement is used in place of the conventional crank shaft and connecting rods, while ignition is supplied by two Type AP 4 SCINTILLA Aircraft Magnets.

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voyage to the North Pole on May 6th, 1926 is the greatest individual achievement in aeronautics.

As a boy he dreamed of the trip — as a naval cadet he studied for it — as a man he achieved it.

He went by way of one unswerving purpose — by years of study and experimenting with engines — planes — aerial equip-

ment — to the accomplishment means danger.

Then came the great moment of the hop-off, with all the hopes of his life entrusted to three Wright Whirlwind Engines — turning smoothly and tirelessly — carrying a man and his comrade to the goal of their ambitions — and as always with Wright — home again!

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BUSINESS MANAGER

# AVIATION

VOL. XX

JUNE 14, 1926

NO. 24

## Selling the Air Mail

**T**HE SUCCESS or failure of the privately operated air mail lines which are springing up throughout the country depends primarily on the question as to whether they get a sufficient amount of revenue to meet normal operating expenses. Regularity and economy is extremely important and depends on the management of the lines almost as much as it does on the equipment used but, even if a line were perfectly managed and had the best of equipment and pilots, it could not survive if it did not have the revenue. Where the management or equipment is bad but the line shows that it is getting enough revenue to meet the normal expenses which are indicated by the operations of other lines, it is always possible to get new management, better equipment and sufficient working capital. The question of revenue is paramount but because the operation of the planes is more interesting and romantic it has absorbed the attention of the organizers of the new air mail and they have not concentrated on the main problem—getting the revenue.

It is the task of the aeronautical individual, who abhors with more interest every bit of sensational news, to realize how ignorant and indifferent the general public is to the existence of the air mail. The average business man or, more important still, the average person, has a hazy idea that there is an air mail service but rarely knows anything definite about the carrier and does not realize how valuable the air mail might be to his particular requirements and, therefore, does not bother to find out what it is all about. The value of the air mail must be impressed upon the American public through a steady campaign of publicity and advertising. Air mail is a commodity like any other and it must be sold to the business man and, therefore, constantly kept before his attention.

If the air lines are to succeed they must realize that the sales are, in a great many respects, a self-fulfilling prophecy which goes into the expense of their planes. They must further realize that the effort must be national; for example, the Salt Lake-Los Angeles line will get much of its business from New York and vice versa. Normal sales methods of free publicity, advertising and overpublicizing can be used but they all cost money and such air lines must bear their proportional share of expense. Air lines can do a lot through local Chambers of Commerce and other civic and business organizations but the great task of selling the air mail to the American public can only be done through a great and continued nationwide effort.

Such an effort can only be accomplished through the cooperation of all the privately owned air lines. Each line individually will work up a certain amount of business for itself locally, but as much of its business must come from far away points it can be entirely successful only by adjusting the whole country to the value of the air mail and the ways to use it.

Last fall some of the private operators got together and held a meeting for the purpose of obtaining methods of getting business. Many of the private mail lines were not represented and very little was accomplished but by next fall the operators will have begun to realize the necessity of closer cooperation and, therefore, will probably form a group company very definitely. In the meantime it is up to every one interested in aviation to follow the lead of the Chamber of Commerce, the N.A.A. and those of the flying clubs and to keep the use of the air mail in every way possible.

## Airplane and Automobile Cooperation

**T**HE CLOSELY allied connection which exists between certain sections of engineering art is perhaps in no other case so clearly apparent as it is between the automobile and the aeronautical fields, particularly in respect to the airplane. While there are certain specific requirements of paramount importance in each and every field, the very considerable overlapping which exists in many of the aeronautical and automobile operations has undoubtedly had very large influence for the comparatively rapid and, at times, phenomenal development that has taken place during the past twenty years in aeronautics.

There was a time, in the early days of flying, when the debt which the airplane held to the automobile was apparent since, without the gasoline engine, which was

presently produced for road transportation, the airplane would have been impossible. That aeronautics is, however, amply paying back its debt is clear when the remarkable developments that have been made in airplane engines are considered—developments which cannot but have a very vital effect upon the reliability, economy and general success of the automobile.

That an even closer cooperation may soon exist between automobile and aeronautical engineering was a thought definitely expressed by H. T. Little, Jr., President of the Society of Automotive Engineers, at the meeting of the Society held at Freshfield Springs, Ind., during the week of May 31. In the opening of Mr. Little's address, automobile manufacturers and lighter. The problems of the aeronautical engineers have ever been mainly concerned with the question of weight and it would seem highly probable that much of the development work which has been carried out in this direction, not only in the case of engine designs but also concerning the design of light rigid structures, capable of withstanding heavy loads, will prove of value to automobile designers.

This is in reality an extremely interesting outlook because, with a great host of automobile engineers building their engines in the direction of obtaining lighter metal structures, involving the possible extensive use of aluminum and duralumin, in automobiles, aeronautical design cannot but benefit from the added concentration on a common subject of such importance.

W. LAMONT LEPAK  
Editor  
VANESSA E. CLARK  
RALPH H. DUNN  
CONTRIBUTORS





strength tubular metal framework which could be quickly fitted just outside the ground.

A small metal device was fitted at the base of the gondola for the trailing aerial, which was 200 ft long. This device enabled a new aerial and weight to be fitted while the aircraft was in flight should it be necessary.

#### Receiver

Special Marconi receiving apparatus was utilized both for receiving radio and for airmail service reception. A short wave receiver with a wave range of 18 to 120 meters was carried. The aerial for this apparatus was a short length of wire fixed between the wireless aerial and one of the magnetos.

The direction finder loop was fitted diagonally around the outside of the cockpit, the center of the loop coinciding with the leading to the radio cabin. The loops consisted of two sets of wires, one short and one radio aerial. The loops were driven by a 12-volt D.C. motor, the motor, housing a small motor and mechanism was very efficient.

The amplifier was provided with two type V-24 valves with anodes-transistor coupling for high frequency wave detection and a type QX valve for rectification.

For the reception of continuous wave, spark and telephone transmissions a "plague" coil transmitter, with a wave range of 300 to 22,000 meters, was used. This transmitter could supply the high frequency supplies. The tuner was a coupled circuit connected provided with mutual coupling to the grid circuit.

#### Commercial Aircraft Conference

On May 26, a joint conference of the Sub-Committee on Aerodynamics of the National Advisory Committee for Aeronautics with representatives of aircraft manufacturers and engineers from the Army, Navy and the Civil Aeronautics Administration of this country was held at Langley Field, where the party departed in the morning at 8:45 a. m., and arriving for the Field at 9:25 a. m., after transiting at Birmingham, Ala. A preliminary meeting was held in the Officers' Club, after the party reached its destination, followed by an inspection of the facilities of the Army and Navy Air Forces and the power plants, instrument rooms, inspection bays, research apparatus, and instruments. After lunch which was served in the N.A.C.A. dining room, a joint conference of the Sub-Committees and the representation was held, during which several new projects were discussed and the recommendations of committee members were presented. The Army and Navy Washington, after a demonstration of Army gunnery and bombing, were given and a tour of the Field was made.

Among those present were: Charles L. Lawrence, president of the Wright Aeronautical Corp.; E. T. Jones, also of the Wright company; M. W. Mitchell, manager of the Ford plant at Nela Park; J. V. Verner, assistant chief engineer of the N. A. C. A., Washington; James G. Bay, operations

chief difficulty in fitting the apparatus in the radio cabin of the biplane was lack of space, the operator's quarters being located in the rear of the fuselage. The instrument of necessity in giving proper attention to carrying of weight other than to appearances, but in spite of every economy in space and weight the general effect was very unsatisfactory. The receiving apparatus was fixed on two shelves just above the other as the interior wall of the cabin. The whole forward wall of the cabin was taken up with the transmission panel.

A narrow table was provided for the operator's writing and for the transmitting key on the starboard outside wall. Under the left hand side of the table the receiver indicator was mounted, and the front of the table was free for the operator. The indicator was also fixed on the left under the table. Next to these instruments on the right hand side, was fitted a small transceiver employed for carrying space.

The transmission and radio battery stood on the floor. A double pole change over switch was fitted in the cabin and the 12-volt lighting system for the ship was brought to this as well as the 220-volt supply. This enabled the ship's generator and the radio accumulator to be charged in parallel with the radio generator, and, if the ship's main gear out, current could be supplied from the radio accumulator and vice versa. The accumulator used for the ship's needs and for the Marconi apparatus was of the thin plate high discharge type and non-sparking.

Manager of the Pitmele Aviation Co.; Keri Armitage, vice-president of the Goodyear-Zeppelin Corp.; Hugh L. Dryden, of the Bureau of Standards; William H. Street of the Aviation Section, U. S. Army; W. A. Kibert, of the Aerodynamics Research Division, NACA; W. C. W. Brinkley, of the Bureau of Standards; A. E. Neimark, of the Fairchild Aviation Corp.; T. P. Wright, of the Detroit Aeroplane & Motor Co. Test; T. G. F. Pape, manager of Glens Windmill, Inc.; Charles F. Patzer, Patzer Aviation Co.; Agnew E. Larson and Robert M. A. Brown, of the same company; E. R. Johnson, McCook Field; G. C. Chamberlain, Jr., of the Bureau of Standards; G. G. E. White, D. S. N., Bureau of Aeronautics; Roger B. Wescott, U. S. A. B. commanding officer, Langley Field; and Dr. W. G. Breidenbach, Bureau of Standards.

The membership of the aerodynamics committee is as follows: Dr. Joseph R. Ames, Johns Hopkins University, chairman; Gandy H. C. Richardson, U. S. N., vice-chairman; Dr. L. J. Brongniart, Bureau of Standards; Loring T. W. Barnes, Bureau of Aeronautics Research; Dr. A. D. Adams, Bureau of Aeronautics Research; Dr. W. M. Darr, Dr. H. F. Felt, Charles F. Morris, Chief U. S. Weather Bureau; Dr. A. P. Sales, Construction Dept., Washington Navy Yard, and Prof. Edward P. Warren, Mass. Inst. of Tech.



Members of the National Advisory Committee for Aeronautics and representatives of the aircraft industry at the conference recently held at Langley Field.

## Corrugated Metal Sheet in Aircraft Structures

*Possibilities of Employing Corrugated Durcolamis for Large Aircraft Components in Addition to Parts of Compound Structures.*

THE USE of corrugated sheet in aircraft construction is certainly greater with many airplane designs while the development of that class of structures has been very largely responsible for the increase in the construction of large rigid seaplanes. While there are undoubtedly disadvantages to the employment of durcolamis for many classes of aircraft construction, an very favorable Strength/Weight ratio makes them especially suitable in the aeronautical field. Developments have been made in sheet form in airplane construction and it will be possible that the proposed series to be produced by the Aerell Development Corp. will be of durcolamis construction throughout, the entire aircraft being composed of durcolamis sheet. Other

It is pointed out that corrugated sheet has been employed in building construction for many years. As an example,



Plate H. A corrugated metal sheet wing spar fitting under main load cell.

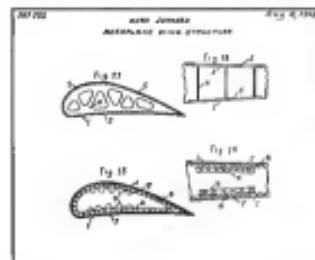


Plate I. Early corrugated metal wing joints.

a patent was issued as long ago as 1911 for constructing bridge buildings of weather strips of corrugated iron with their corrugations running in the right manner and width of the joint material. However, the application of corrugated metal construction in airplane design has not and possibly a few space years. In 1935, the German designer, Herr Hugo Junkers advanced the application of corrugated sheet metal to the construction of all-metal airplane wings. Reproduced from the Junkers patent show, in Plate I, Figs. 11 and 13, the method of connecting the top of the sheet to a corrugated metal sheet and, in Figs. 12 and 14, a similar type of metal wing construction is shown, which involves the employment of multiply stiffening. Junkers planes were the first to employ corrugated metal construction in both wings and as a fuselage covering, in such case, the latter surface including consideration of strength in the form of the internal structure. This type of construction has later been adopted in the Storch all metal monoplane.

Mr. Lyle notes that some years ago, Short Brothers, one of the leading constructors of aircraft in England adopted corrugated web wing spars in one of their planes. The corrugated spar consisted of an upper and lower base of



Plate II. Two forms of corrugated ribs with corrugated metal webs for the control arm of the one-clip undercarriage B-51.





## We Have a Propeller Complex?

By PILOT C. K. WOODFORD

My friend Sam, who, by trade, is an Aerial Photographer, took unto himself a saw, hammer, a few nuts and some old boards and proceeded to knock out what grotesquely assessed the name and shape of my airplane, belonging to the species *espresso*. To complete the general appearance, he added mounted to the already assembled fuselage, a pair of 1940 wings, procured from a local Government flying field.

Now, with a passionate degree of pride, I state that I helped friend Stan hold what he hoped would be a massive family reunion. Certainly, I helped. Did I not hand him the phone and make quite a stir? Did I not help him when he was in trouble? Did I not do most of the work? Did I not help that much anyway? I felt that I would be doing my part as the point man during the first test. Thanks to my wife, Wanda Mayo, of Chatsworth, we can sleep well at night. In those one of last old people with us dead, that is not correct, remember and admire the great performance of our dear old matron as we daily viewed his life in a negative sense. I am sure that the old man would have appreciated old Stanwood's J.W. and his wife's help in this regard. I am sure that we will be the old crew, plus a few new ones, in 1999. Please, if you know, let me know, thoughts of wisdom, can

the most peaceful, made of the death of many more; but, deep in my heart, I believe my old autoroller is the best pilot in the whole world, her name: (We all feel that way about our autorollers.)

"Swirls off," said Sam. "I proceeded to wisk her up for competition, and, predictably, paid for the amateurism of small boys who were watching."

"Contact," I yelled.

"Contact," repeated Sam. "I swung the prop over. The engine coughed a couple of times, then started throwing the dirt off back at Sam's face. He was going down for the third time when I jumped to the rescue and cut the switch, thus stopping the engine and also the flow of oil as Sam could get in mouth shortly."

"Then—"

that takes some time under 100° quantized Sun.

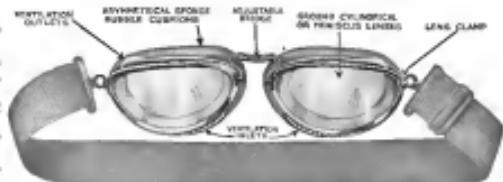
We prepared a soap box to stand on and, after a careful survey of the research of that Lawrence engine, we diagnosed the case needed is the cylinder, namely by stopping the engine to sit in an upside down position. After a conference, we decided the best plan was to start the engine and let the case fall in the cylinder burn out. With the knowledge that it is known only to burn, Sam volunteered to open face that few of hot dirty dust. [Upon my advice, he donned a pair of white wings in case it got too hot to walk out.]



The *Kishorti Phystiyan* (10 sp. Lawrence Ad sps), which was built by S. W. Kishorti of Corp. 1916, Pa., and the history of which is almost absent.

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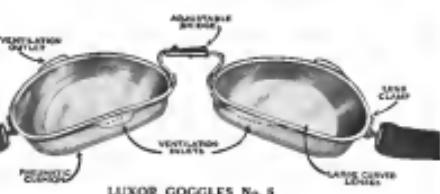


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are perfect.

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Descriptive  
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Contractors to  
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## Naval Air Bill Passed By Senate

On June 5 the House bill, which would authorize a five-year flying program for the Naval Air Service, was passed by the Senate. It was passed with an amendment, which means it must go to conference for adjustment of differences between the House and Senate.

The measure, which provides for an estimated total of \$65,000,000 during the next five years, was passed without debate and without a record vote.

Present in the Senate at the conclusion of 1,697 planks, was an air crew of 1,000 men, and the maintenance of a minimum strength of 1,000 men, on one.

The surplus of a type suitable for use as transports to the fleet, would be of approximately \$3,000,000 in total, and \$600,000 would be set aside as the amortization cost for each.

By year, the following hearing-lease rates for the new machines would be: 1925, \$125,000; 1926, \$125,000; 1927, \$125,000; 1928, \$125,000; 1929, \$125,000; 1930, \$125,000; 1931, \$125,000; 1932, \$125,000; 1933, \$125,000. Payment also is made for the building of 200 other planes.

## Planes Will Map Alaska

The project of surveying Alaska by air and making maps of this territory was undertaken by the Army and the Navy on May 27 when the New York Aerophilic, apparently for a few weeks' preliminary and observation work, left San Diego, Cal. At Seattle a fourth plane will be added to the group.

Leroy H. Wigfall is in command of the expedition and will work under the supervision of Admiral Charles F. Hughes, commanding-in-chief of the Pacific fleet. About 200 officers and 20 enlisted men accompany the expedition. The planes will be equipped with 100-foot cameras which will be carried at the Brewster Navy Yard into a clearing house for the personnel. It will be housed along the Alaskan coast, as the work progresses, by the airmail bundle system, on which the party, with the exception of the airplane pilots, will travel.

During the summer and early autumn, 500 of the airmen of the Alaska Peninsula will be mapped. The survey will be completed in the fall, and the remaining 500 airmen of this territory will map the great stretches of mountains, forests and rivers of this country, the Geological Survey and the Forestry Service being particularly interested in the results obtained.

All the planes used in this expedition have been equipped with gasoline tanks, auxiliary fuel tanks, propellers, maintenance tools, Standard Gas Propeller Compensators.

As an example of the possibilities of the capacity of charting by aerial photography, it is possible for these planes, flying in a line 50 miles apart and at 300 mph., to map a strip 300 miles wide and 100 miles long or 30,000 sq. miles, in one hour. In actual practice, however, areas of this size will not be mapped in one flight under normal atmospheric conditions.

The mapping will be done from an altitude of 12,000 ft., and one of the greatest difficulties the workers will have to encounter will be to avoid clouds which will obstruct the view to be charted.

## Dinner for Captain Fouch

Captain Ernest Fouch, Flying Corps, U.S.A., who is a guest of the Los Angeles Chamber of Commerce, was invited to a dinner given by Raymond Grinnell, who flew over the city in a biplane, on May 10 at a dinner given by the Automobile Club of America, 17 East Fifth Street.

Captain Fouch said that he had not desired what he would have off. Thirty Automobile Club members and the president of an accompanying Los Angeles radio station were present. The speaker was Lloyd Little, Waite, one of the Army fliers who first came to Los Angeles. Other speakers were Capt. Horace M. Berry and Louis Robert Fournier, officers in the Army, and Lloyd Condit, A. R. Brady, U.S.N.

George H. Morris, President of the Club, who was hostmaster, read letters from well-wishers, including President Coolidge, Governor Smith, Postmaster General Harry S. New, General P. S. Sturman, Rear Admiral Charles F. Moffett and Admiral Moffett.

## "Side Slips"

By ROBERT R. GOURSES

In New York recently, in the river channel, was run aground by a boat that had to be hoisted in order to save the passengers and crew. The New York papers had all sorts of headlines and special notes calling attention to this "remarkable case of seamanship" on the part of the captain. Somewhere, this remarkable sense of seamanship doesn't impress us very much, and so far we have failed to join in with our cheers and admiration for the captain. In fact, our opinion is that this kind of an action, the eighth grade of seamanship, would be the natural result of the same measure for saving a sinking boat.

If the reading public wants its news served up with this sort of "supplements," sensational news will have to be spread as quickly as it is to arrest any interest. We think it was Lydia Lopke who once "displayed remarkable powers of mind" in "stepping out of a pack of a runaway dog." Another time, "a remarkable case of seamanship" compensated the passengers for running out into the street when the bus caught fire. And so it goes—we have been reporting to read any time now that President Coolidge had saved himself from death by starvation by eating a large dinner.

The correspondents of the *Associated Press* and *Newsweek* section of *Associated* might add a little interest to our regular news items along the following lines—"After a long flight with displayed precision and skill, Wednesday afternoon by bringing the plane to the ground when the engine stopped" or "The pilot skillfully saved his life by jumping out of his plane with a parachute when the wings fell off, while his passenger was unharmed."

The sudden great interest in Donnigan's Flying Bell Telephone has taken off of quite a bit since the judge in the Bell-Cessna case sentenced Mr. Cessna to a year's imprisonment and \$2,000 fine for his grub-the-tail-of-the-party.

The recent unsuccessful attempt to take up a 500 ft. passenger plane in the City of Los Angeles by another passenger will live to see some time. We have reference to the passenger carried by one of the newest designs of seaplanes in making the performance records claimed for them. Our impression of him is that he weighs about thirty-five pounds and has a perfect streamlined head.

The reports from Mr. Goldblatt, who is attempting to create the globe on thirty-five days, have been somewhat disappointing. He has been unable to get a complete list of his records as yet, but there hasn't been a single completed sheet that we receive on any of the commercial air routes he has used. Unless Mr. Goldblatt hastens to stick with a completed list of his records, someone else may establish himself as the fast hand-to-hand record.

Mr. H. F. Jr. disagrees with our statement that commercial aviation can be had to have "arrived" when the planes start holding passengers. He says to us, "I have been reading in the papers that the time of 'ready' cannot be arrived at. I have agreed with the public and the ship-people to you as the leading equipment of the express plane lines ever to say 'What line of goods are you selling in this business? Daddy?'"

We plead as very much that the Los Angeles has been sold to a few times that pass without fighting any terrible gales. It has only been likely that the ship has been driven into the water by the newspapers, and the fight is desirably against a couple of gales. We're not saying that the ship was not driven into some heavy blues you understand—oh, but that we were living near Lakewood, N. J. last year and seemed to have completely overlooked most of the terrible gales that were raging thereabouts.

## AIRPORTS AND AIRWAYS

## Pittsburgh, Pa.

By H. A. Tidke

On Thursday, April 28th, the Aero Club of Pittsburgh observed "Aviation Day" at Rogers Field, the Pittsburgh Aerodrome. The program was arranged jointly to honor the Mayor, members of City Council, County Commissioners and other city and county officials in order to have them inspect the Field and to promote the organization of an air board to operate the field.

The Aero Club has suggested a board composed of five members, representing such as the following: City of Pittsburgh, County of Allegheny (post-warden), Aero Club, Chamber of Commerce, the air service officer in charge of General Aviation Flying instruction, as this is also known to a Pittsburgh Army Training Field.

Before proceeding to the *Armistice*, all the officials were guests of the club at its regular luncheon. Several trips were on the list at the Field and many of the officials took their first flight and were delighted with the experience.

On Saturday afternoon, May 6, a large crowd witnessed the Aero Club's first Regatta model airplane competition at Rogers Field, which proved a great success to all concerned. The contest was divided into two groups, one for duration and one for model construction. Gliders, models were entered in

the two contests, but because at a strong wind, no records for flight were broken by the flying models. These were some cleverly constructed stiff models, patterned from large ships, and a few bore the sun-marks of ownership, but without due regard for their flying possibilities. The longest flight was only fifteen seconds.

Only boys under eighteen years of age participated. The song spread of the flying models was limited to forty inches, propellers emblazoned by color streaks and construction by the boys themselves, except for small metal fittings, etc., which could be purchased ready-made.

The last program in the flying contest is their open competition for the Tidke Trophy. Joe Lata, Charles Zinner, William Nease, Harry Glisson, Kenneth Wadkin, Robert Belansky, William Peterson, and Joe the model expert, William X. Foulke, William J. Gunders, James Clegg, Ben Balcer, James Biss, Norman Warner, George Schellinger, Arthur Willett, John F. Koeniger, Harry C. Glisson.

Streets, including scaffolding, cameras, and other sporting equipment, including two subscriptions to *Aviation*, comprised the prizes, with a choice of one article from several in each prize group. Congressman James M. Moran, a member of the club, presented to the winner of the model contest, a



Prize winners of the Pittsburgh Model Flying Contest. (Left to Right)—Thomas R. Tidke, Wm. J. Clegg (Winner in Model Contest). Also shown are Eddie Charles Mayes, Wilton Nease, Harry Glisson, Kenneth McAdoo, and Robert Belansky.















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